

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

Claim 1. (Previously Presented) An essentially purified neurotrophin of carp, carp NT-7 having neurotrophic activity and an amino acid sequence as follows:

Lys Ala Asn Asp Phe Leu His Arg Gly Glu Tyr Ser Val Cys Asp Ser Glu Glu His Trp Val  
Gly Asn Leu Thr Gln Ala Thr Asp Leu Arg Gly Asn Glu Val Thr Val Leu Pro His Val  
Arg Ile Asn Asn Val Val Lys Lys Gln Met Phe Tyr Glu Thr Thr Cys Arg Val Ser Lys Pro  
Ile Gly Ala Pro Lys Pro Gly Gln Gly Val Ser Gly Val Lys Ala Gly Thr Ser Ser Cys Arg  
Gly Ile Asp Asn Glu His Trp Asn Ser Tyr Cys Thr Asn Val His Thr Phe Val Arg Ala Leu  
Thr Ser Tyr Lys Asn Gln Ile Ala Trp Arg Phe Ile Arg Ile Asn Ala Ala Cys Val Cys Val  
Leu Ser Arg Asn Ser Trp Arg His (SEQ ID NO:1) or functional variants, analogues and  
functional fragments of NT-7.

Claim 2. (Withdrawn)

Claim 3. (Previously Presented) A composition comprising an essentially purified neurotrophin of carp, carp NT-7 having neurotrophic activity and an amino acid sequence as follows:

Lys Ala Asn Asp Phe Leu His Arg Gly Glu Tyr Ser Val Cys Asp Ser Glu Glu His Trp Val  
 Gly Asn Leu Thr Gln Ala Thr Asp Leu Arg Gly Asn Glu Val Thr Val Leu Pro His Val  
 Arg Ile Asn Asn Val Val Lys Lys Gln Met Phe Tyr Glu Thr Thr Cys Arg Val Ser Lys Pro  
 Ile Gly Ala Pro Lys Pro Gly Gln Gly Val Ser Gly Val Lys Ala Gly Thr Ser Ser Cys Arg  
 Gly Ile Asp Asn Glu His Trp Asn Ser Tyr Cys Thr Asn Val His Thr Phe Val Arg Ala Leu  
 Thr Ser Tyr Lys Asn Gln Ile Ala Trp Arg Phe Ile Arg Ile Asn Ala Ala Cys Val Cys Val  
 Leu Ser Arg Asn Ser Trp Arg His (SEQ ID NO:1) or functional variants, analogues and  
 functional fragments of NT-7.

Claim 4. (Previously Presented) A method of treating acute and/or chronic  
 neuronal injury or degenerative states for a specific subclass of neurons, comprising  
 administering to a subject an essentially purified neurotrophin of carp, carp NT-7 of  
 claim 1.

Claim 5. (Withdrawn)

Claims 6-9. (Canceled)